

CALIFORNIA ENERGY COMMISSION
Window Film Installation
9800 La Cienega Building Project Summary

Project Description:

Trizec, owners of this 358,000 square foot Inglewood building, needed to reduce energy costs, improve comfort, and reduce fading of furnishings and carpeting from ultra violet radiation. They wanted to maintain maximum light levels without drastically changing the appearance of the building or its windows, and determined that there should be no obvious appearance of window film being in use.

After careful research Trizec selected a spectrally-selective window film. The film lets desirable daylight through glass while blocking 54% of undesirable solar heat and 98% of the ultra violet radiation. It is transparent and almost colorless, and is backed with a 12-year warranty against adhesive failure, bubbling, cracking, delaminating, dematerialization and peeling.



The film was installed on approximately 40,000 square feet of the south, east, and west facing windows. With the clear film applied to existing glass, solar heat is significantly reduced without a visible change in the daylight entering the building. Because this film does not change a building's appearance, it may be applied only to windows with a high solar exposure, instead of having to install the film throughout the entire building.

Project Results:

Immediately after the installation of the window film, building occupants experienced dramatic reductions in solar heat and major improvements in comfort. This will have a significant impact on peak period air conditioning demand, estimated at 8,000 watts. Due to the film's visual clarity, no one could tell anything was put on the windows. The approximate 98% reduction in ultra violet rays will dramatically curtail future fading of furnishings and carpeting.

Funding Details:

The Energy Commission provided an \$18,947 award toward the total project cost of \$121,400. Based on Department of Energy savings calculation software (DOE-2), annual energy savings of \$42,000 are projected for this project. The project has a payback period of only 29 months, leaving approximately 10 years of warranty covered savings, for an estimated \$420,000 in energy savings after payback is complete.

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